

FIG. 1

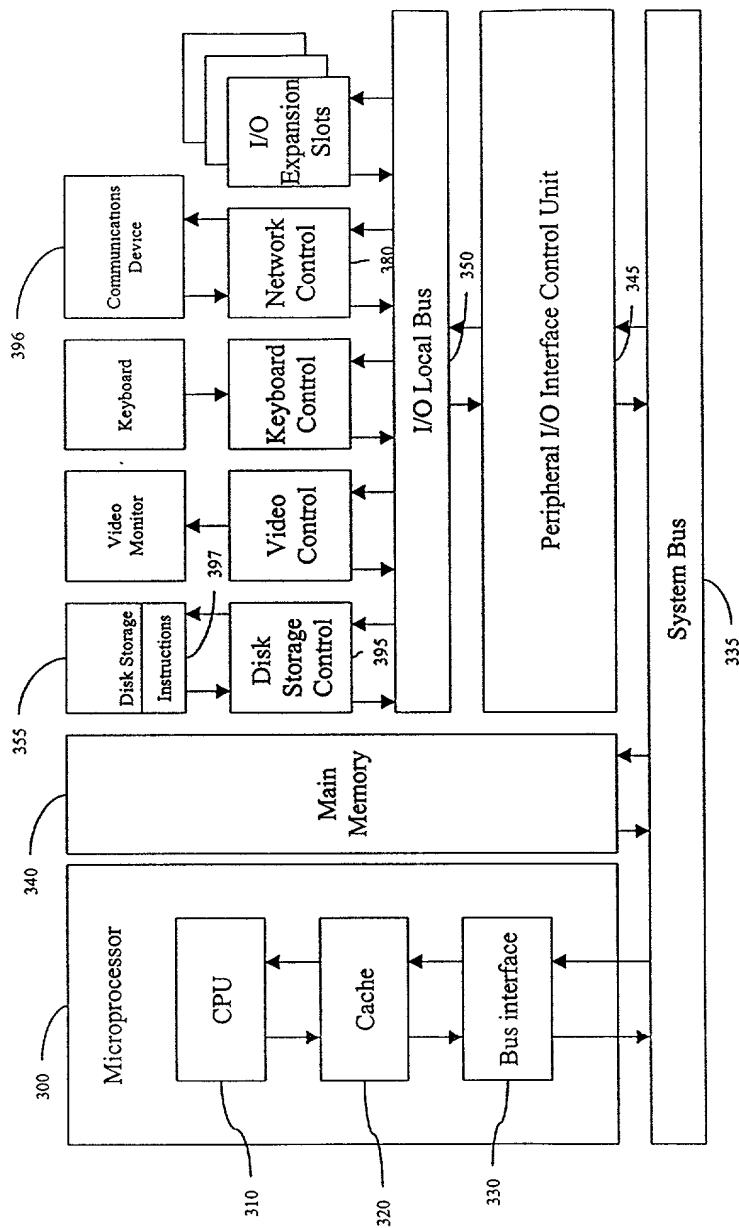


FIG. 2

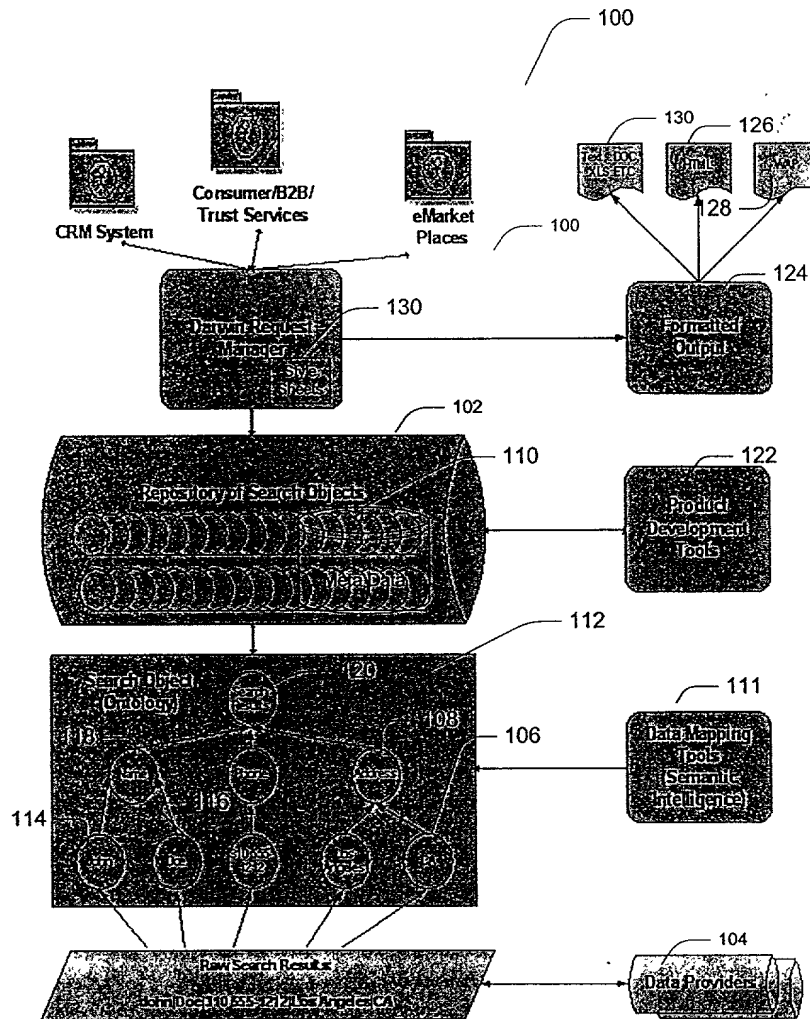


FIG. 3

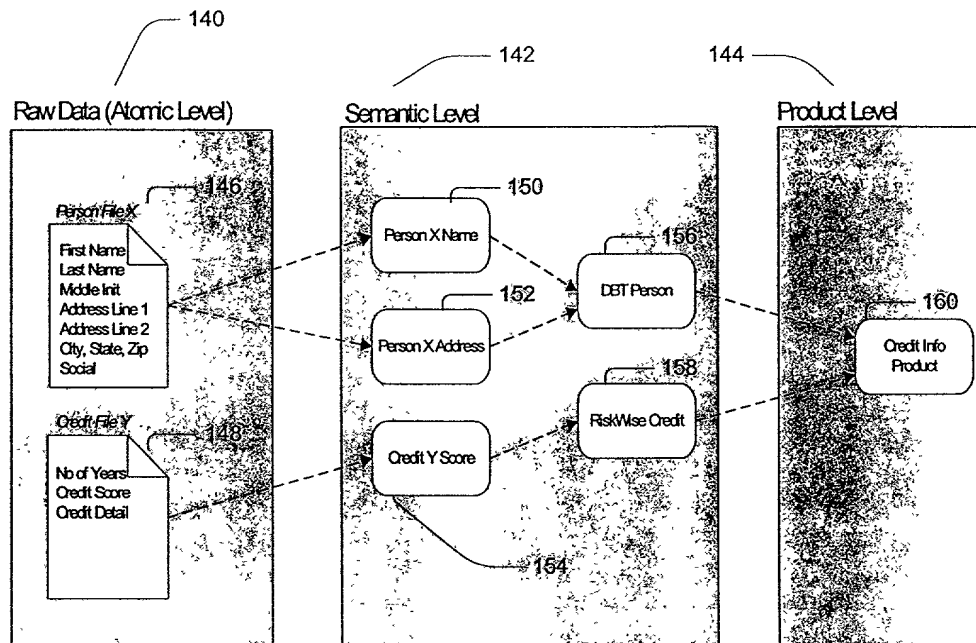
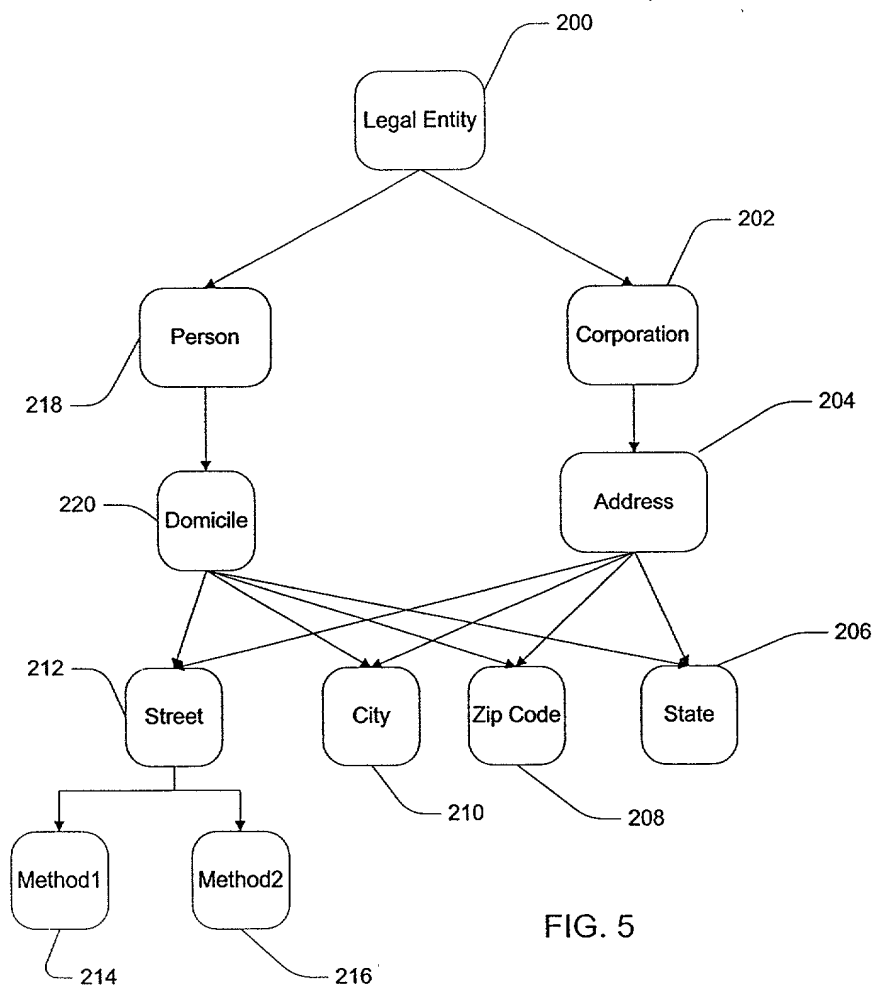
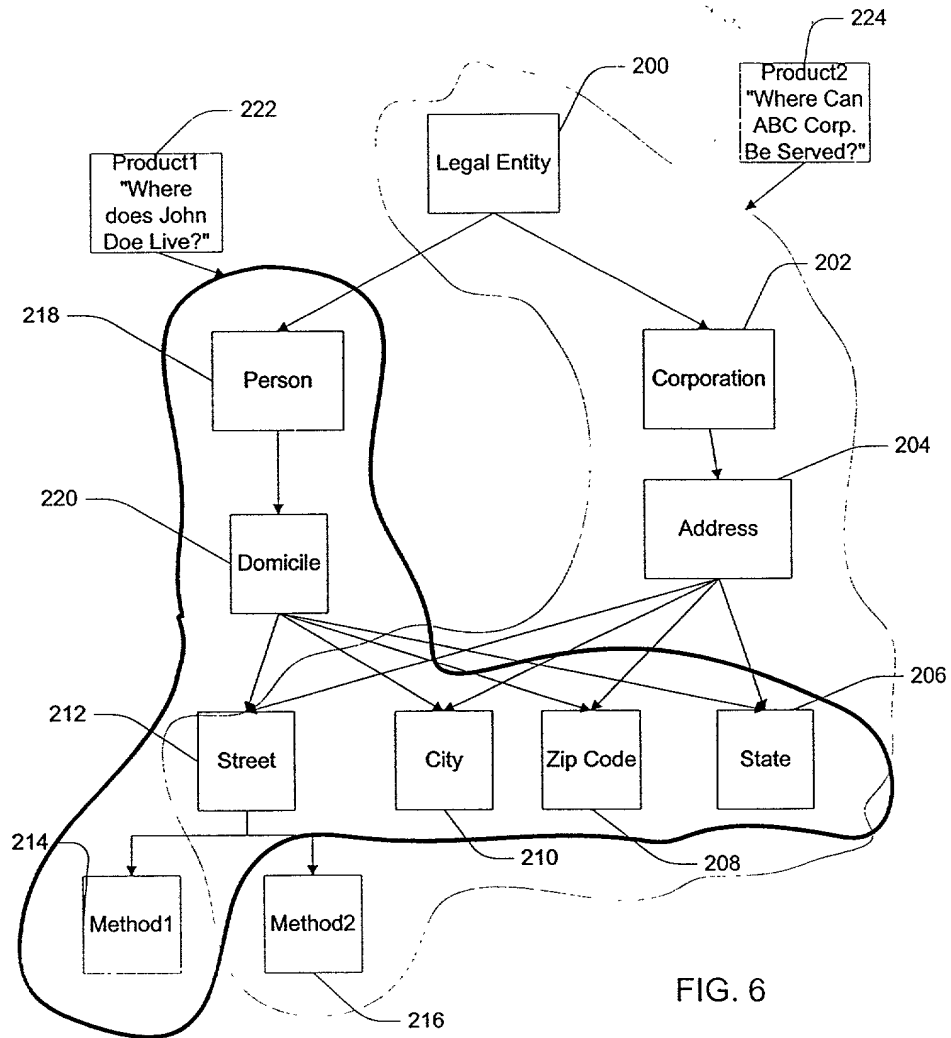


FIG. 4





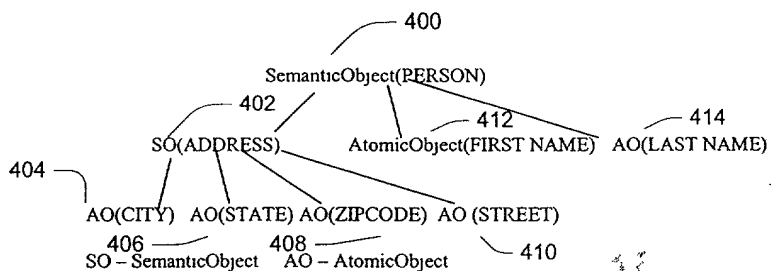


FIG. 7a

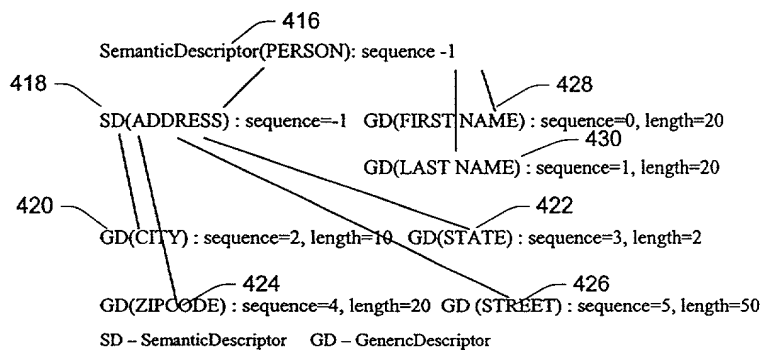


FIG. 7b

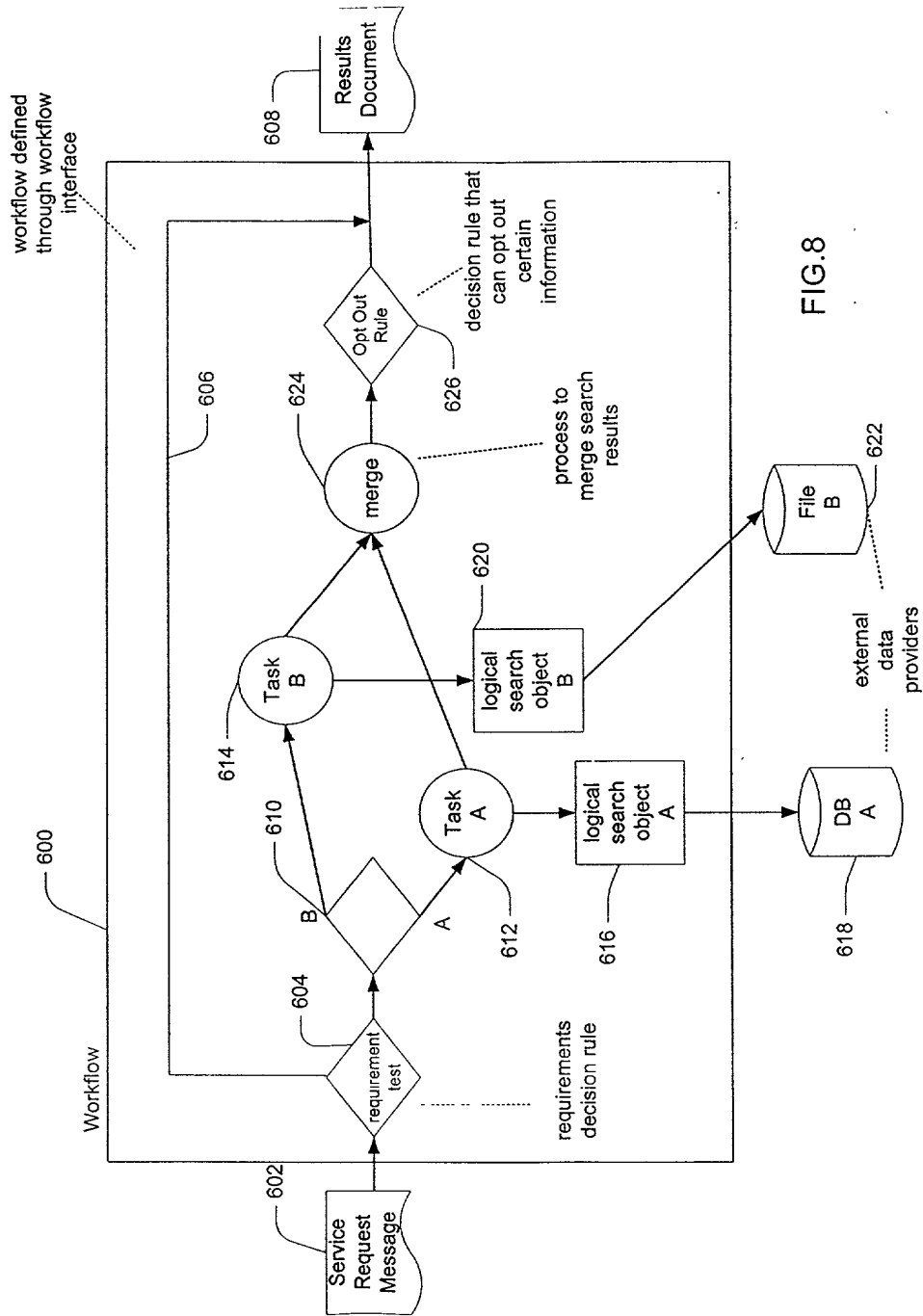


FIG. 8



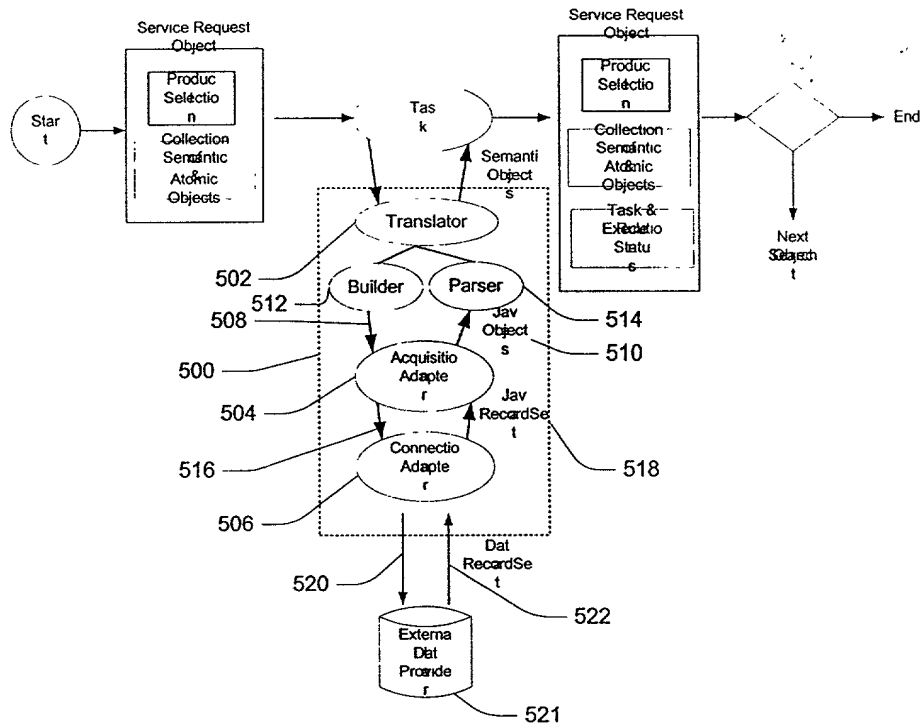
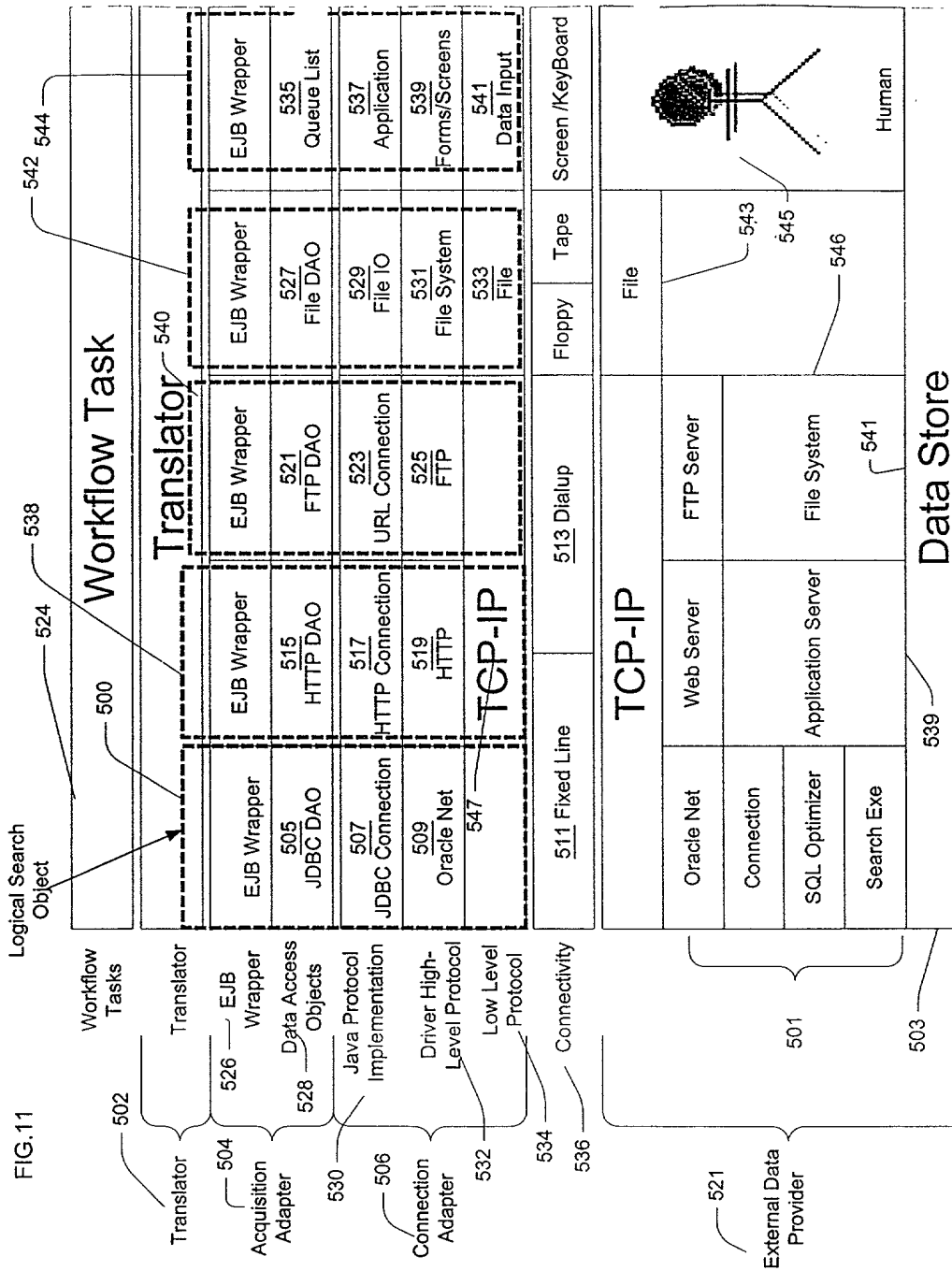
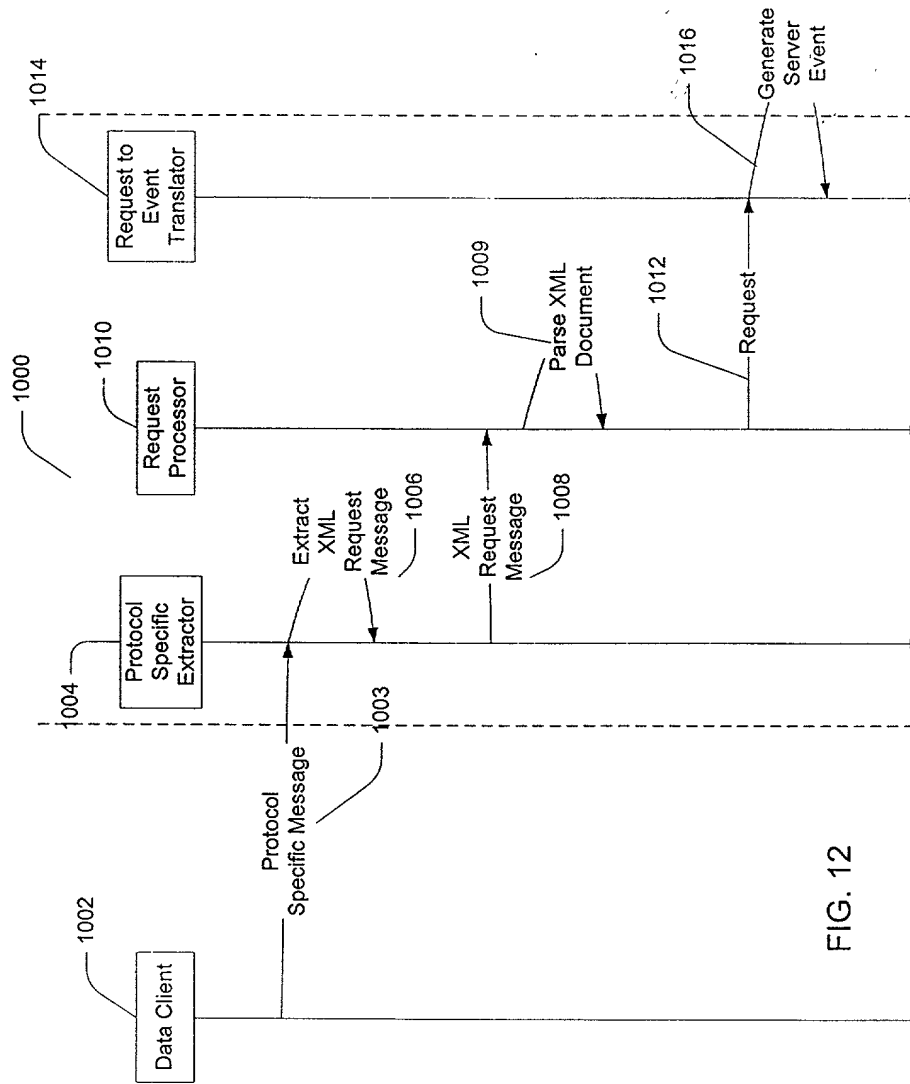


FIG. 10

Logical Search
Object





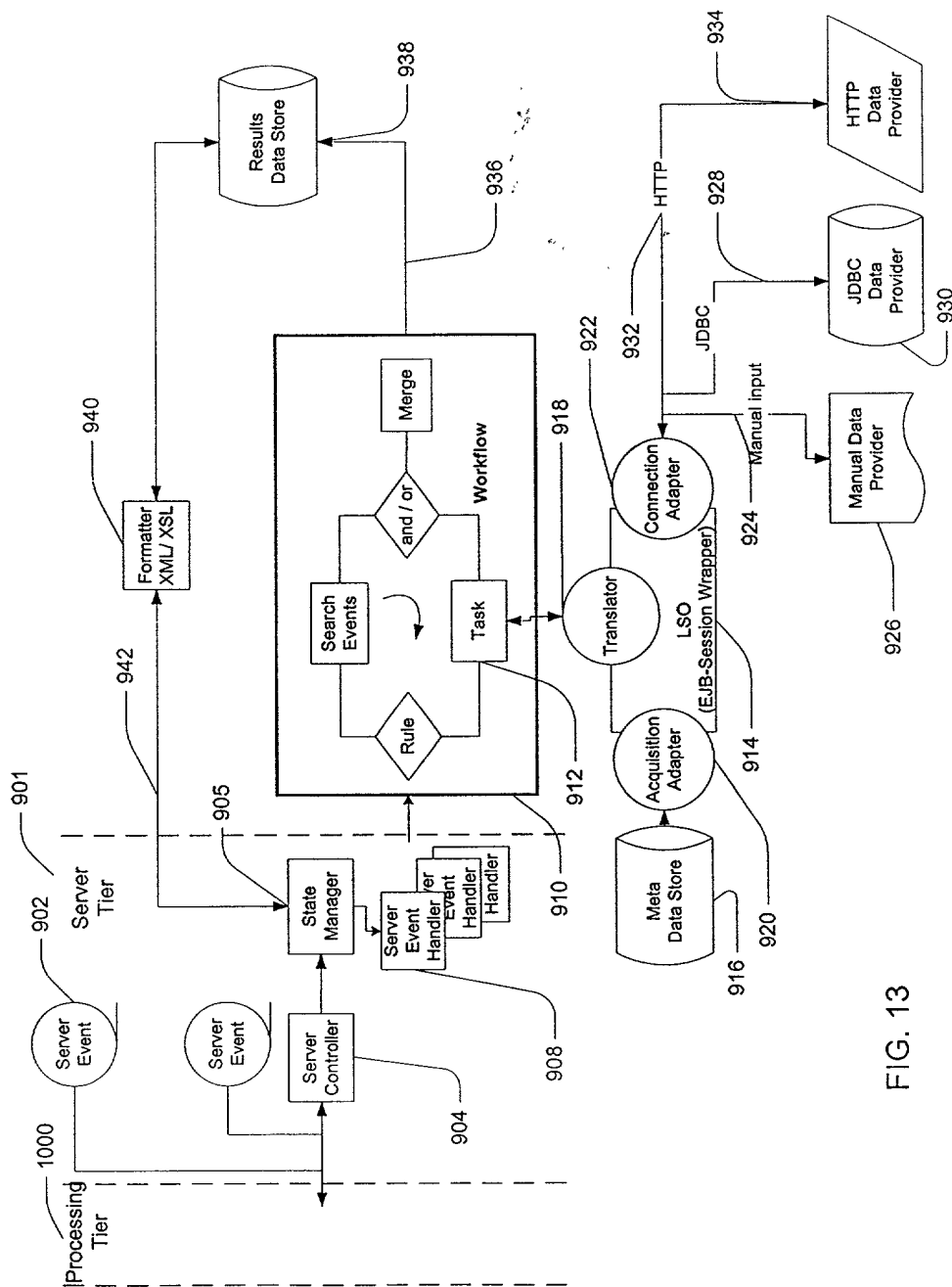


FIG. 13

Sample Service Request Message

```
<?xml version="1.0" encoding="UTF-8"?> ~1100
<message type="ServiceRequest" source-id="com.searchco"> ~1101
  <data> ~1102
    <service-request message-id="11001100"> ~1104
      <service-item sku="CSRASearch" item="1"> ~1106
        <parameter name="firstname" value="John" /> ~1108
        <parameter name="lastname" value="Smith" /> ~1110

        <notification type="email"> ~1112
          <parameter name="address"
            value="John.Smith@company.com" />
          <format style="email" />
        </notification>

        <result-format> ~1114
          <format style="csra-results" />
        </result-format>

        <results> ~1116
        </results>
      </service-item>
    </service-request>
  </data>
</message>
```

FIG. 14

Sample Status Messages

```
<?xml version="1.0" encoding="UTF-8"?>
<message type="Status" source-id="com.searchco" >
  <data>
    <status message-id="1010010101">
      <status-request item="1" IDAS-id="394" />
      <status-request item="2" IDAS-id="488" />
      <status-request item="3" IDAS-id="506" />
      <status-request item="4" IDAS-id="13892192312" />
    </status>
  </data>
</message>
```

FIG. 15

Sample Cancel Messages

```
<?xml version="1.0"?> ~1127
<message type="Cancel" source-id="searchco"> ~1126
  <data> ~1128
    <cancel message-id="1234567890"> ~1130
      <cancel-request item="1" IDAS-id="1234567890" />
      <cancel-request item="2" IDAS-id="2345678901" />
    </cancel>
  </data> 1132
</message>
```

FIG. 16

Sample Output Request Messages

```
<?xml version="1.0"?>
<message type="OutputRequest" source-id="searchco">~1134
  <data>~1136
    <output message-id="1234567890">~1138
      <output-request item="1" IDAS-id="1234567890">~1140
        <format style="pdf" />~1142
      </output-request>~1144
      <output-request item="2" IDAS-id="2345678901">
        <format style="html" />
      </output-request>
    </output>
  </data>
</message>
```

FIG. 17

Sample Response Messages

Sample of a message return when a service request has been accepted.

```
<?xml version="1.0"?>
<message type="Response" source-id="IDAS">
  <data>
    <service-response message-id="1010010101">
      <response item="1" result="Success"
        request="Order" IDAS-id="345234234">
        <response-value>Workflow started at 01:23pm
        September 4th</response-value >
      </response >
      <response item="2" result="Success"
        request="Order" IDAS-id="345234234">
        <response-value >Workflow started at 01:23pm
        September 4th, 2001</ response-value>
      </response>
    </service-response>
  </data>
</IDAS-message>
```

FIG. 18